

# *Rapid Courseware (CW) Generation using .Net Database Application*

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Presented By  
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MANSCEN Lifelong Learning Center



# Our Agenda

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- Introducing .Net Database Development Process
- SCO Development Demonstration
- Questions

# Courseware Database

Instructional design output entered into a standardized database interface–

The screenshot displays the MANSCENWare database interface. The title bar indicates the file path: D:\MANSCENTraining\courses\engineer\Example06Aug\Example06Aug.mdb. The menu bar includes File, Edit, Record, Language, and Help. The form is divided into several sections:

- Page Information:** Page Type (Risk and Requirements), Title (Introduction), and Instructions (empty text area with up/down arrows).
- Navigation and Sorting:** Sort By (Page Identifier Num), Sub Heading (OSHA Requirement), Identifier (21G10\_C01\_000\_0), and Navigation Prompt (Select the N).
- Content Selection:** A tabbed interface with options: Initial Content\*, Content (1-2), Content (3-4), Content (5-6), Content (7-8), Content (9-10), Media, Question, and Alerts.
- Initial Content:** A text area containing the following text:

Initial or first content on the page

AR 385-10, Army Safety Program:  
Chapter 3, Safety Standards Application

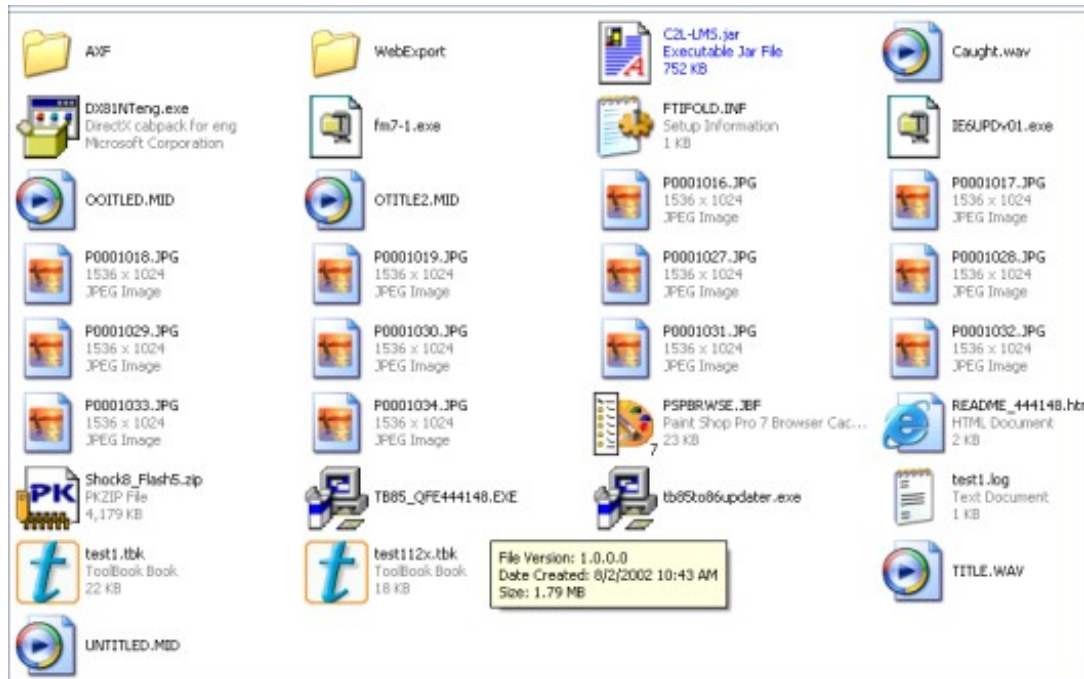
3-1. Standards, subparagraphs a, c, and e apply.

a. Army workplaces are generally comparable to private sector workplaces. All standards established by DOL pursuant to sections 6 and 19 of Public Law 91-596 are adopted as will be complied with in applicable Army workplaces.

c. Commanders will apply OSHA and other non-DA regulatory or consensus safety and health standards to military unique equipment, systems, operations, or workplaces, in whole or in part, as practicable. When military design, specifications, or requirements render compliance infeasible, or when no regulatory or consensus standard exists for such military application, commanders will apply the most applicable standard.
- Image and Narration Fields:**
  - Initial Image Type (Photo), Initial Image Filename (environmental\_safety.jpg), and Initial Narration Filename (empty).
  - Initial Image Description (empty text area with up/down arrows) and Initial Narration Script (empty text area with up/down arrows).
- Reference Instructions:** A text area at the bottom for additional instructions.

# Courseware Media Development

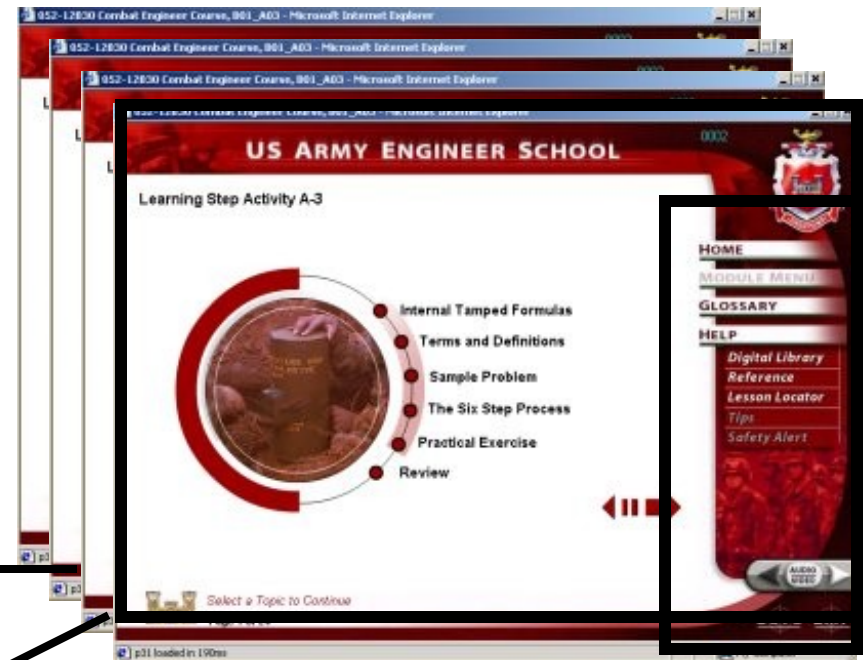
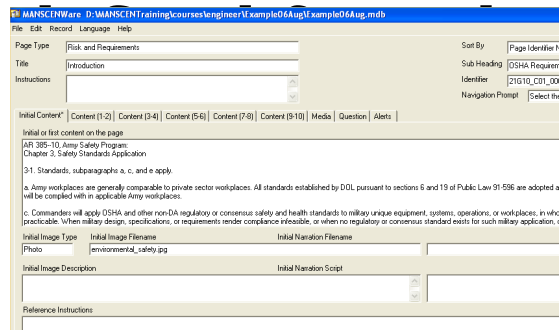
Media files saved in a common media folder–



# . Net Application Engine

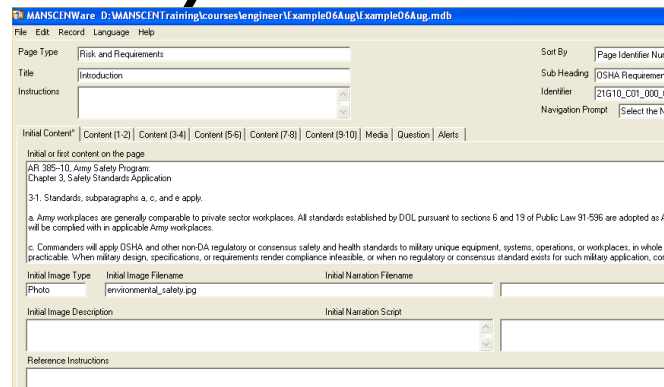
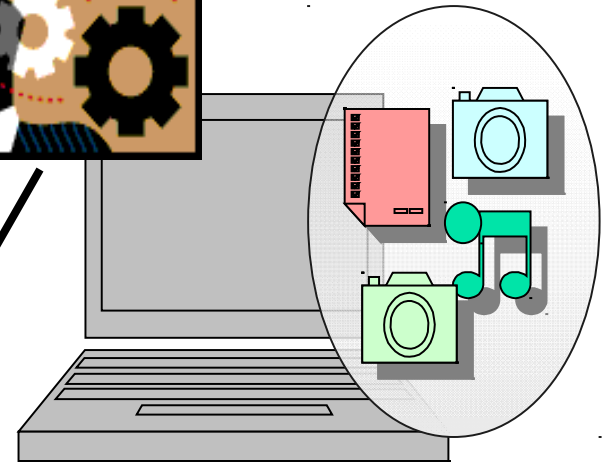
Government Web Server  
Software Application that –

- Dynamically builds courseware screens viewed in a web browser
- Generates course content using scripted application templates database



# . Net Application Engine

Media elements required to be played within the SCO are selected from the media folder as outlined from the



# SCO Delivery

.Net Web Server/LMS

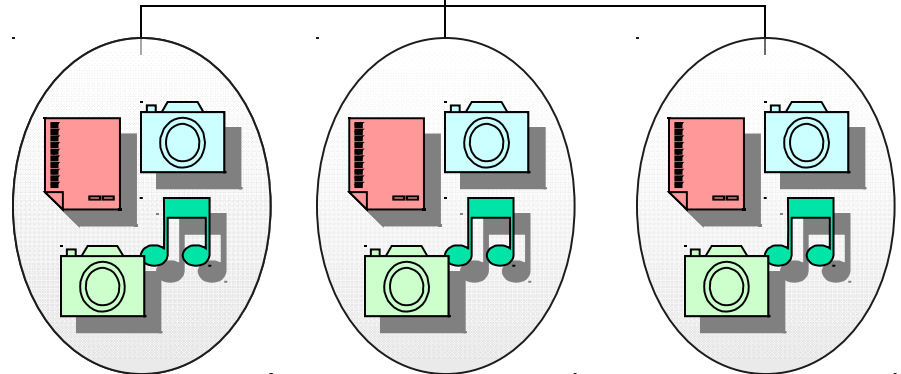
Student  
Progress  
Tracked

Learner  
Launches a  
SCO

LMS

.Net  
Customized Course

.Net Application  
Dynamically  
Creates  
Screens and  
Host the Media Files  
On Demand



# SCO Communications

SCORM-conformant

MANSCEN Samples - Microsoft Internet Expl...

File Edit View Favorites Tools Help

Back Forward Stop Home Search

Address <http://www-training.wood.e...> Go Links

Use SCORM: ☒

Content: Test Module

User Interface: engineer

Launch

Clear Results

LMSInitialize

LMSGetValue: cmi.core.student\_name

LMSGetValue: cmi.core.lesson\_location

LMSGetValue: cmi.core.lesson\_status

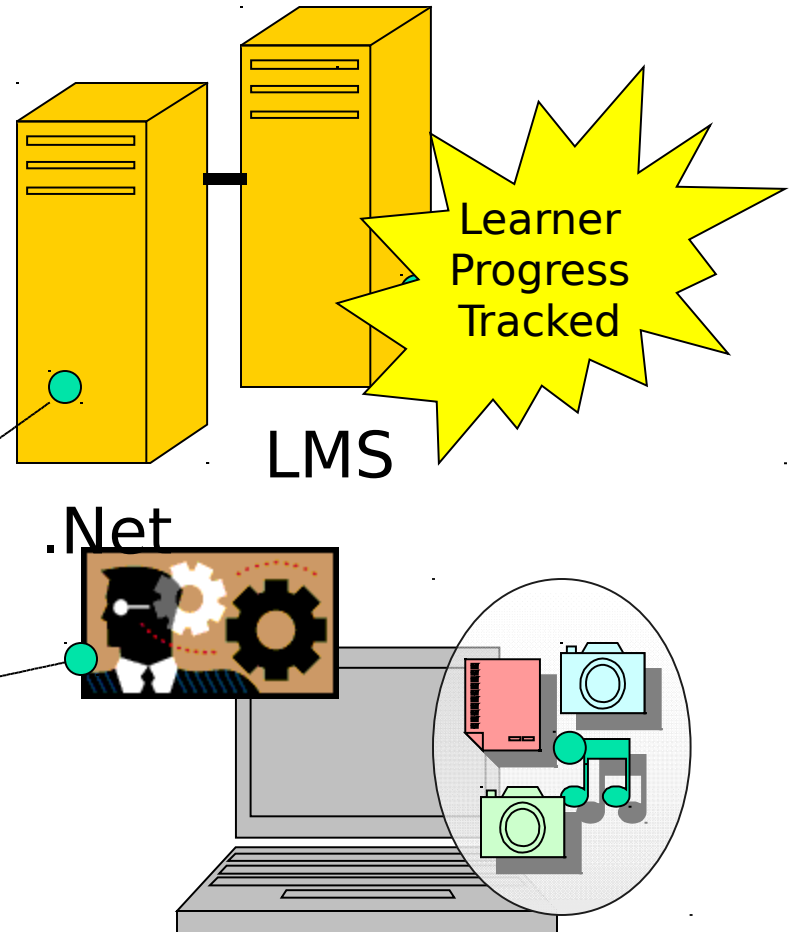
LMSGetValue: cmi.student\_data.mastery\_score

LMSGetValue: cmi.suspend\_data

LMSGetValue: cmi.core.score.raw

LMSSetValue cmi.core.session\_time = 00:00:01.93

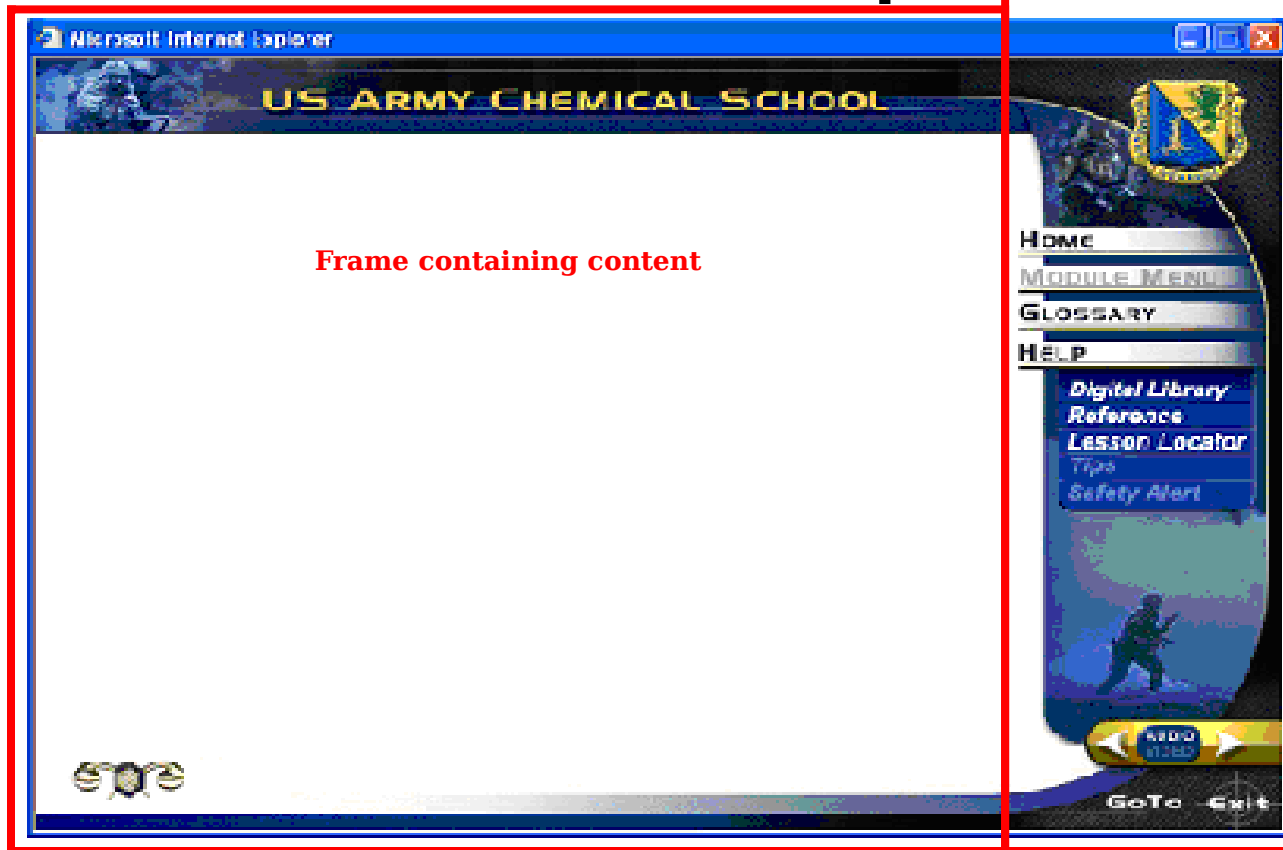
LMSSetValue cmi.core.exit = logout





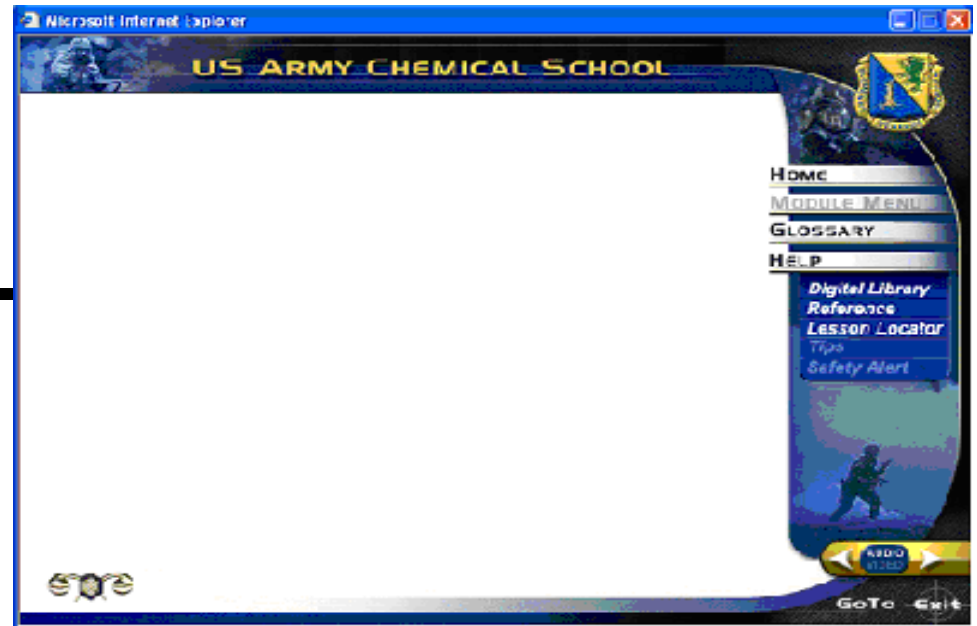
# SCOs User Interface

## Standardized Frame Example

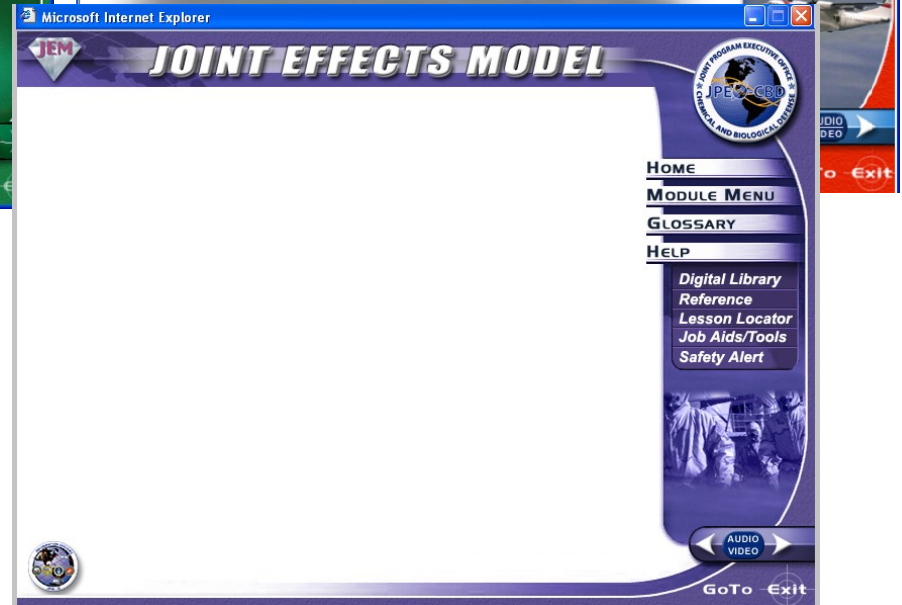
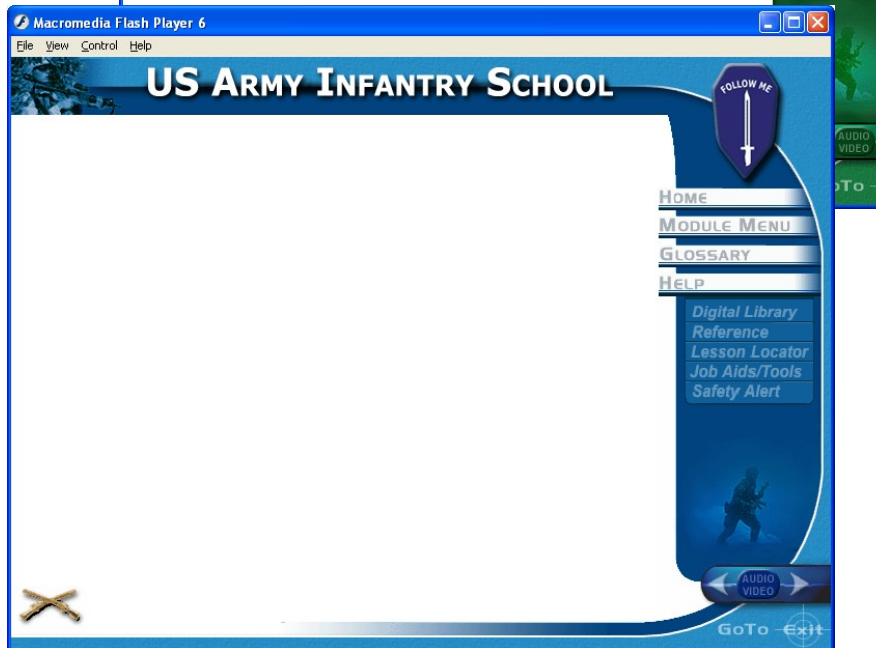
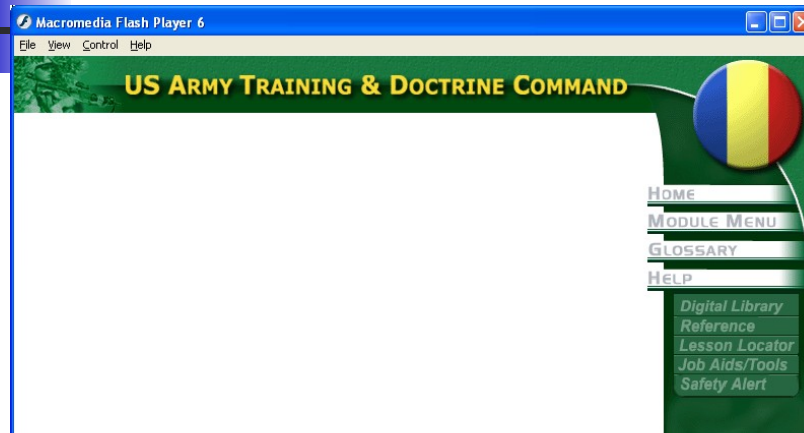


# SCOs Fielding

## User Interface Frame Selection



# User Interface Examples



# .Net Application Demonstration

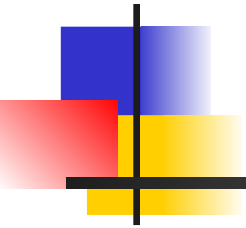
<http://www-training.wood.army.mil/MANSCENTTraining/start>





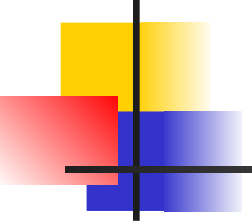
# .Net Application Benefits

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# Questions/Discussion?

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